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| APPLICATION NO.               | FILING DATE       | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.    | CONFIRMATION NO |
|-------------------------------|-------------------|----------------------|------------------------|-----------------|
| 10/621,522                    | 07/18/2003        | Noriaki Ohnishi      | 4539-0109P             | 1171            |
| 2292 75                       | 590 12/14/2004    |                      | EXAMINER               |                 |
| BIRCH STEWART KOLASCH & BIRCH |                   |                      | NGUYEN, THANH NHAN P   |                 |
| PO BOX 747 FALLS CHURG        | CH, VA 22040-0747 |                      | ART UNIT PAPER NUMBER  |                 |
|                               | <b></b> , <b></b> |                      | 2871                   |                 |
|                               |                   |                      | DATE MAILED: 12/14/200 | 4               |

Please find below and/or attached an Office communication concerning this application or proceeding.

|  | Application No.   | 1 A1:   |           |
|--|---|---|-----------|
|  | Application No.   | Applicant(s)  |           |
| Office A -41 am Comment  | 10/621,522  | OHNISHI, NORIAKI  |           |
| Office Action Summary  | Examiner  | Art Unit  | 0.11      |
|  | (Nancy) Thanh-Nhan P Nguyen   | 2871  |           |
| The MAILING DATE of this communication app<br>Period for Reply   | pears on the cover sheet with the   | correspondence addres   | s         |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be tily within the statutory minimum of thirty (30) dawill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE | mely filed ys will be considered timely. In the mailing date of this commur ED (35 U.S.C. § 133). | nication. |
| Status   |   |   |           |
| 1) Responsive to communication(s) filed on 18 Ju   | uly 2003.   |   |           |
| 2a) This action is <b>FINAL</b> . 2b) ⊠ This   | action is non-final.  |   |           |
| 3) Since this application is in condition for allowa   |   |   | rits is   |
| closed in accordance with the practice under E   | Ex parte Quayle, 1935 C.D. 11, 4  | 53 O.G. 213.  |           |
| Disposition of Claims  |   |   |           |
| 4) Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-15 are subject to restriction and/or of the specification is objected to by the Examine  | wn from consideration. election requirement.  |   |           |
| 10) The drawing(s) filed on is/are: a) acc   | epted or b) objected to by the  | Examiner.   |           |
| Applicant may not request that any objection to the  | drawing(s) be held in abeyance. Se  | e 37 CFR 1.85(a).   | •         |
| Replacement drawing sheet(s) including the correct   |   |   | • •       |
| 11) The oath or declaration is objected to by the Ex   | caminer. Note the attached Office   | e Action or form PTO-1  | 52.       |
| Priority under 35 U.S.C. § 119   | •   |   |           |
| <ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> <li>* See the attached detailed Office action for a list</li> </ul>  | s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).  | ion No<br>ed in this National Stag  | ·<br>le   |
| Attachment(e)  |   |   |           |
| Attachment(s)  1) Notice of References Cited (PTO-892)   | 4) Interview Summary  | / (PTO-413)   |           |
| Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date   | Paper No(s)/Mail D  |   | )         |

## **DETAILED ACTION**

## **Election/Restrictions**

Restriction to one of the following inventions is required under 35 U.S.C 121:

I. Claims 1-10, drawn to a liquid crystal display device comprising at least

one inorganic alignment film, which is made of a crystalline conductive

film, classified in class 349, subclass 123.

II. Claims 11-15, drawn to a method for fabricating a liquid crystal display

device comprising the step of forming the crystalline conductive film,

classified in class 349, subclass 124.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as subcombinations disclosed as usable together

in a single combination. The subcombinations are distinct from each other if they are

shown to be separately usable. In the instant case, there are many ways of forming the

inorganic alignment film, which is made of a crystalline conductive film, such as

depositing, dipping coat, spinning coat, or rubbing, etc. Invention II has separate utility

such as forming the crystalline conductive film by irradiating the crystalline conductive

film with an energy beam. See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above, and the

search required for Invention I is not required for Invention II, restriction for examination

purposes as indicated is proper.

Group I or II contains embodiments directed to following patentably distinct species of the claims invention:

A: One embodiment drawn to the step of forming the crystalline conductive film preferably includes the step of forming the crystalline conductive film in which the crystal grains have a cubic crystalline structure and are oriented in <111> directions thereof, [fig. 2-4].

B: Another embodiment drawn to the step of forming the crystalline conductive film preferably includes the step of forming the crystalline conductive film in which the crystal grains have a cubic crystalline structure and are oriented in <110> directions thereof, [fig. 2-4].

C: Other embodiment drawn to the step of irradiating the crystalline conductive film with the energy beam preferably includes the step of irradiating the crystalline conductive film with at least one energy beam that is selected from the group consisting of an excimer laser beam, an ultraviolet ray, an electron beam and a particle beam, [fig. 5].

If Invention II is elected, applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of claims is generic.

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**Art Unit: 2871** 

Applicant is advised that the reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent from or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of recorded showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on M-F/9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

(Nancy) Thanh-Nhan P Nguyen Examiner Art Unit 2871

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PRIMARY EXAMINER

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